

## WEST Search History

DATE: Monday, April 05, 2004

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L5	L4 and aspart\$	21
<input type="checkbox"/>	L4	L3 with muta\$	42
<input type="checkbox"/>	L3	pyruvate carboxylase	825
<input type="checkbox"/>	L2	L1 and pyruvate	5
<input type="checkbox"/>	L1	hanke.in.	1351

END OF SEARCH HISTORY

First Hit☐ [Generate Collection](#) [Print](#)

L2: Entry 1 of 5

File: PGPB

Jan 23, 2003

DOCUMENT-IDENTIFIER: US 20030017557 A1

TITLE: Gene encoding phosphoglucosomerase

INVENTOR:Hanke, Paul D.Detail Description Paragraph:

[0023] In agreement with the present invention, the altered bacterial cell of the present invention is cultured in a culture medium that comprises a carbon source and a nitrogen source. The carbon source can be, for example, arabinose, cellobiose, fructose, glucose, lactose, maltose, mannose, rhamnose, raffinose, sorbose, sucrose, trehalose, pyruvate, or succinate. The carbon source is preferably at an initial concentration of 0.1 to 10%, preferably 0.5 to 6.0% by weight. All of the carbon source can be added to the medium before the start of culturing, or it can be added step by step or continuously during culturing.

Detail Description Paragraph:

[0035] Most of the glucose catabolized in living organisms proceeds through glycolysis resulting in the formation of pyruvate. The pentose phosphate pathway, also called the hexose monophosphate shunt, is an alternative route for glucose catabolism. The pentose phosphate pathway produces NADPH and under lysine fermentation conditions is more active. Ishino, S. et al., J. Gen. Appl. Microbiol. 3-:157-165 (1991).

Detail Description Paragraph:

[0037] In a preferred embodiment, the present invention further provides a method of producing L-amino acids by culturing an altered bacterial cell with an increased amount of malic enzyme relative to an unaltered cell. Malic enzyme catalyzes the reaction of malate with NADP<sup>sup.+</sup> to produce pyruvate, carbon dioxide, NADPH and H<sup>sup.+</sup>.

Detail Description Paragraph:

[0039] Both glycolysis and the pentose phosphate pathway compete for glucose. In the present invention, an altered bacterial cell can be one in which a decrease or blockage of the carbon flux through glycolysis results in an increase in the carbon flux through the oxidative branch of the pentose phosphate pathway. As used in the present invention, an altered bacterial cell can be one in which a decrease in carbon flux through glycolysis is achieved through decreasing the amount of one or more enzyme(s) involved in glycolysis. Preferred enzymes are 6-phosphoglucose isomerase, fructose diphosphate aldolase, D-glyceraldehyde phosphate dehydrogenase, phosphoglycerate kinase, phosphoglycerate mutase, endolase or pyruvate kinase. A preferred enzyme is 6-phosphoglucose isomerase.

## Hit List

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### Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20030017557 A1

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L2: Entry 1 of 5

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017557 A1

TITLE: Gene encoding phosphoglucoisomerase

PUBLICATION-DATE: January 23, 2003

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Hanke</u> , Paul D.	Aurora	IL	US	

US-CL-CURRENT: [435/106](#); [435/191](#), [435/252.3](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWNC	Drawn De
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☐ 2. Document ID: US 20020177202 A1

L2: Entry 2 of 5

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177202 A1

TITLE: Feedback-resistant pyruvate carboxylase gene from corynebacterium

PUBLICATION-DATE: November 28, 2002

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Hanke</u> , Paul D.	Aurora	IL	US	

US-CL-CURRENT: [435/189](#); [435/193](#), [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWNC	Drawn De
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☐ 3. Document ID: US 6680190 B2

L2: Entry 3 of 5

File: USPT

Jan 20, 2004

US-PAT-NO: 6680190

DOCUMENT-IDENTIFIER: US 6680190 B2

TITLE: Gene encoding phosphoglucosomerase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 4. Document ID: US 6465238 B1

L2: Entry 4 of 5

File: USPT

Oct 15, 2002

US-PAT-NO: 6465238

DOCUMENT-IDENTIFIER: US 6465238 B1

TITLE: Gene encoding phosphoglucosomerase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 5. Document ID: BR 200114532 A, WO 200231158 A2, AU 200213146 A, US 20020177202 A1, EP 1325135 A2

L2: Entry 5 of 5

File: DWPI

Dec 30, 2003

DERWENT-ACC-NO: 2002-463267

DERWENT-WEEK: 200409

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TITLE: Novel mutated, feedback resistant pyruvate carboxylase enzyme polypeptide, useful for producing amino acids e.g. L-lysine, L-threonine, L-glycine, L-glutamic acid, L-proline and L-methionine and L-isoleucine

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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Terms	Documents
L1 and pyruvate	5

Display Format:  [Previous Page](#)[Next Page](#)[Go to Doc#](#)

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**Search Results - Record(s) 1 through 10 of 21 returned.**

☐ 1. Document ID: US 20030228567 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 21

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030228567

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030228567 A1

TITLE: Compostions and methods for modeling Saccharomyces cerevisiae metabolism

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Famili, Imandokht	San Diego	CA	US	
Forster, Jochen	Copenhagen	HI	DK	
Fu, Pengcheng	Honolulu	CA	US	
Nielsen, Jens B.	Charlottenlund		DK	
Palsson, Bernhard O.	La Jolla		US	

US-CL-CURRENT: 435/4; 435/254.21, 435/6, 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMMC	Draw D
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☐ 2. Document ID: US 20030166285 A1

L5: Entry 2 of 21

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166285

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166285 A1

TITLE: Methods and compositions for genetically modifying primate bone marrow cells

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Valerio, Domenico	Leiden		NL	
Van Beusechem, Victor Willem	Amsterdam		NL	

US-CL-CURRENT: 435/456; 435/372

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20030087381 A1

L5: Entry 3 of 21

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087381

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087381 A1

TITLE: Metabolically engineered organisms for enhanced production of oxaloacetate-derived biochemicals

PUBLICATION-DATE: May 8, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gokarn, Ravi R.	Plymouth	MN	US	
Eiteman, Mark A.	Athens	GA	US	
Altman, Elliot	Athens	GA	US	

US-CL-CURRENT: 435/69.1; 435/193, 435/252.3, 435/252.33, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 20030082238 A1

L5: Entry 4 of 21

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082238

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030082238 A1

TITLE: Matrices for drug delivery and methods for making and using the same

PUBLICATION-DATE: May 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Babich, John W.	North Scituate	MA	US	
Zubieta, Jon	Syracuse	NY	US	
Bonavia, Grant	Kensington	MD	US	

US-CL-CURRENT: 424/491; 424/130.1, 424/94.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 5. Document ID: US 20030027305 A1

L5: Entry 5 of 21

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027305

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030027305 A1

TITLE: Pyruvate carboxylase from Corynebacterium glutamicum

PUBLICATION-DATE: February 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sinskey, Anthony J.	Boston	MA	US	
Lessard, Philip A.	Framingham	MA	US	
Willis, Laura B.	Cambridge	MA	US	

US-CL-CURRENT: [435/189](#); [435/115](#), [435/252.3](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 6. Document ID: US 20020177202 A1

L5: Entry 6 of 21

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177202 A1

TITLE: Feedback-resistant pyruvate carboxylase gene from corynebacterium

PUBLICATION-DATE: November 28, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hanke, Paul D.	Aurora	IL	US	

US-CL-CURRENT: [435/189](#); [435/193](#), [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 7. Document ID: US 6472212 B1

L5: Entry 7 of 21

File: USPT

Oct 29, 2002

US-PAT-NO: 6472212

DOCUMENT-IDENTIFIER: US 6472212 B1

TITLE: Methods and compositions for genetically modifying primate bone marrow cells

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 8. Document ID: US 6455284 B1

L5: Entry 8 of 21

File: USPT

Sep 24, 2002

US-PAT-NO: 6455284

DOCUMENT-IDENTIFIER: US 6455284 B1

TITLE: Metabolically engineered E. coli for enhanced production of oxaloacetate-derived biochemicals

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 9. Document ID: US 6403351 B1

L5: Entry 9 of 21

File: USPT

Jun 11, 2002

US-PAT-NO: 6403351

DOCUMENT-IDENTIFIER: US 6403351 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Pyruvate carboxylase polypeptide from Corynebacterium glutamicum

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 10. Document ID: US 6338962 B1

L5: Entry 10 of 21

File: USPT

Jan 15, 2002

US-PAT-NO: 6338962

DOCUMENT-IDENTIFIER: US 6338962 B1

TITLE: Use of a non-mammalian DNA virus to express an exogenous gene in a mammalian cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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Terms	Documents
L4 and aspart\$	21

Display Format:



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Search Results - Record(s) 11 through 20 of 21 returned.

☐ 11. Document ID: US 6338953 B1

Using default format because multiple data bases are involved.

L5: Entry 11 of 21

File: USPT

Jan 15, 2002

US-PAT-NO: 6338953

DOCUMENT-IDENTIFIER: US 6338953 B1

TITLE: Expression of an exogenous gene in a mammalian cell by use of a non-mammalian DNA virus having an altered coat protein

DATE-ISSUED: January 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyce; Frederick M.	Belmont	MA		
Barsoum; James G.	Lexington	MA		

US-CL-CURRENT: [435/69.7](#); [435/252.3](#), [435/320.1](#), [435/325](#), [435/69.1](#), [514/12](#), [536/23.2](#), [536/23.5](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 12. Document ID: US 6281009 B1

L5: Entry 12 of 21

File: USPT

Aug 28, 2001

US-PAT-NO: 6281009

DOCUMENT-IDENTIFIER: US 6281009 B1

TITLE: Use of a non-mammalian DNA virus to express an exogenous gene in a mammalian cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 13. Document ID: US 6238914 B1

L5: Entry 13 of 21

File: USPT

May 29, 2001

US-PAT-NO: 6238914

DOCUMENT-IDENTIFIER: US 6238914 B1

h e b b cg b cc e

TITLE: Use of a non-mammalian DNA virus to express an exogenous gene in a mammalian cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 14. Document ID: US 6190887 B1

L5: Entry 14 of 21

File: USPT

Feb 20, 2001

US-PAT-NO: 6190887

DOCUMENT-IDENTIFIER: US 6190887 B1

TITLE: Expression of an exogenous gene in a mammalian cell by use of a non-mammalian DNA virus having an altered coat protein

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 15. Document ID: US 6183993 B1

L5: Entry 15 of 21

File: USPT

Feb 6, 2001

US-PAT-NO: 6183993

DOCUMENT-IDENTIFIER: US 6183993 B1

TITLE: Complement-resistant non-mammalian DNA viruses and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 16. Document ID: US 6171833 B1

L5: Entry 16 of 21

File: USPT

Jan 9, 2001

US-PAT-NO: 6171833

DOCUMENT-IDENTIFIER: US 6171833 B1

TITLE: Pyruvate carboxylase from corynebacterium glutamicum

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 17. Document ID: US 6165500 A

L5: Entry 17 of 21

File: USPT

Dec 26, 2000

US-PAT-NO: 6165500

DOCUMENT-IDENTIFIER: US 6165500 A

TITLE: Preparation for the application of agents in mini-droplets

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 18. Document ID: US 5871986 A

L5: Entry 18 of 21

File: USPT

Feb 16, 1999

US-PAT-NO: 5871986

DOCUMENT-IDENTIFIER: US 5871986 A

TITLE: Use of a baculovirus to express and exogenous gene in a mammalian cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 19. Document ID: US 5731182 A

L5: Entry 19 of 21

File: USPT

Mar 24, 1998

US-PAT-NO: 5731182

DOCUMENT-IDENTIFIER: US 5731182 A

TITLE: Non-mammalian DNA virus to express an exogenous gene in a mammalian cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 20. Document ID: BR 200114532 A, WO 200231158 A2, AU 200213146 A, US 20020177202 A1, EP 1325135 A2

L5: Entry 20 of 21

File: DWPI

Dec 30, 2003

DERWENT-ACC-NO: 2002-463267

DERWENT-WEEK: 200409

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TITLE: Novel mutated, feedback resistant pyruvate carboxylase enzyme polypeptide, useful for producing amino acids e.g. L-lysine, L-threonine, L-glycine, L-glutamic acid, L-proline and L-methionine and L-isoleucine

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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Terms

Documents

L4 and aspart\$

21

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**Search Results - Record(s) 21 through 21 of 21 returned.**

21. Document ID: PH 1199448842 B1, WO 9506114 A1, AU 9480991 A, JP 07111890 A, JP 08070860 A, CZ 9600524 A3, EP 723011 A1, SK 9600204 A3, BR 9407625 A, AU 682547 B, CN 1133615 A, EP 723011 A4, US 5876983 A, US 5919694 A, JP 3013711 B2, RU 2133772 C1, MX 195842 B, HU 219600 B, CZ 289051 B6, EP 723011 B1, DE 69430919 E, KR 337959 B, SK 283369 B6

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L5: Entry 21 of 21

File: DWPI

Apr 16, 2002

DERWENT-ACC-NO: 1995-106843

DERWENT-WEEK: 200382

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TITLE: Variant of phospho-enol pyruvate carboxylase - not substantially inhibited by aspartic acid, is used for efficient production of amino acids

INVENTOR: IZUI, K; MATSUI, H ; SUGIMOTO, M ; SUZUKI, T ; HIROSHI, M ; MASAKAZU, S ; TOMOKO, S ; TOYAMA, T ; MATSUI, H H

PRIORITY-DATA: 1994JP-0153876 (July 5, 1994), 1993JP-0209775 (August 24, 1993), 1993JP-0209776 (August 24, 1993)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>PH 1199448842 B1</u>	April 16, 2002		000	C12N015/00
<u>WO 9506114 A1</u>	March 2, 1995	J	077	C12N009/88
<u>AU 9480991 A</u>	March 21, 1995		000	C12N009/88
<u>JP 07111890 A</u>	May 2, 1995		016	C12N009/00
<u>JP 08070860 A</u>	March 19, 1996		026	C12N009/00
<u>CZ 9600524 A3</u>	June 12, 1996		000	C12N009/88
<u>EP 723011 A1</u>	July 24, 1996	E	050	C12N009/88
<u>SK 9600204 A3</u>	November 6, 1996		000	C12N009/88
<u>BR 9407625 A</u>	January 21, 1997		000	C12N009/88
<u>AU 682547 B</u>	October 9, 1997		000	C12N009/88
<u>CN 1133615 A</u>	October 16, 1996		000	C12N009/88
<u>EP 723011 A4</u>	January 1, 1997		000	C12N009/88
<u>US 5876983 A</u>	March 2, 1999		000	C12P013/04
<u>US 5919694 A</u>	July 6, 1999		000	C07H021/04
<u>JP 3013711 B2</u>	February 28, 2000		016	C12N009/00
<u>RU 2133772 C1</u>	July 27, 1999		000	C12N009/88
<u>MX 195842 B</u>	April 4, 2000		000	C07H021/004
<u>HU 219600 B</u>	May 28, 2001		000	C12N009/88

<u>CZ 289051 B6</u>	October 17, 2001		000	C12N009/88
<u>EP 723011 B1</u>	July 3, 2002	E	000	C12N009/88
<u>DE 69430919 E</u>	August 8, 2002		000	C12N009/88
<u>KR 337959 B</u>	November 23, 2002		000	C12N009/88
<u>SK 283369 B6</u>	June 3, 2003		000	C12N009/88

C1 , MX 195842 B INT-CL (IPC): C07H 21/004; C07H 21/04; C12N 1/020; C12N 1/20; C12N 1/21; C12N 9/00; C12N 9/18; C12N 9/88; C12N 15/00; C12N 15/03; C12N 15/09; C12N 15/11; C12N 15/52; C12P 13/04; C12P 13/06; C12P 13/08; C12P 13/10; C12P 13/12 ; C12P 13/14; C12P 13/24; C12N 1/21; C12R 1/01; C12N 1/21; C12R 1/185; C12N 9/00; C12R 1/01; C12N 9/00; C12R 1/185; C12P 13/06; C12R 1/185; C12P 13/06; C12R 1/01; C12P 13/08; C12R 1/185; C12P 13/08; C12R 1/01; C12P 13/10; C12R 1/185; C12P 13/10; C12R 1/01; C12P 13/12; C12R 1/185; C12P 13/14; C12R 1/185; C12P 13/14 ; C12R 1/01; C12P 13/24; C12R 1/185; C12P 13/24; C12R 1/01; C12N 9/00; C12R 1/185; C12N 9/00; C12R 1/01; C12N 1/21; C12R 1/185; C12N 1/21; C12R 1/01; C12N 15/09; C12R 1/185; C12P 13/06; C12R 1/185; C12P 13/06; C12R 1/01; C12P 13/08; C12R 1/185; C12P 13/08; C12R 1/01; C12N 9/00; C12R 1/185; C12N 9/00; C12R 1/01; C12N 15/09; C12R 1/185

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw. De
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Terms	Documents
L4 and aspart\$	21

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NEWS	8	OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24 MSDS-CCOHS file reloaded
NEWS	10	DEC 08 CABA reloaded with left truncation
NEWS	11	DEC 08 IMS file names changed
NEWS	12	DEC 09 Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPplus
NEWS	14	DEC 17 DGENE: Two new display fields added
NEWS	15	DEC 18 BIOTECHNO no longer updated
NEWS	16	DEC 19 CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22 Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22 ABI-INFORM now available on STN
NEWS	20	JAN 27 Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27 A new search aid, the Company Name Thesaurus, available in CA/CAPplus
NEWS	22	FEB 05 German (DE) application and patent publication number format changes
NEWS	23	MAR 03 MEDLINE and LMEDLINE reloaded
NEWS	24	MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS	25	MAR 03 FRANCEPAT now available on STN
NEWS	26	MAR 29 Pharmaceutical Substances (PS) now available on STN
NEWS	27	MAR 29 WPIFV now available on STN
NEWS	28	MAR 29 No connect hour charges in WPIFV until May 1, 2004
NEWS	29	MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS	EXPRESS	MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS	HOURS	STN Operating Hours Plus Help Desk Availability
NEWS	INTER	General Internet Information
NEWS	LOGIN	Welcome Banner and News Items
NEWS	PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS	WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 11:49:36 ON 05 APR 2004

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=> fil .eliz
COST IN U.S. DOLLARS
FULL ESTIMATED COST
SINCE FILE ENTRY 0.21
TOTAL SESSION 0.21

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=> s hanke, ?/au
L1 7857 HANKE, ?/AU

=> s l1 and pyruvate carboxylase
L2 3 L1 AND PYRUVATE CARBOXYLASE

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3 1 DUP REM L2 (2 DUPLICATES REMOVED)

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=> d

L3 ANSWER 1 OF 1 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-16323 BIOTECHDS
TI Novel mutated, feedback resistant ***pyruvate*** ***carboxylase***
enzyme polypeptide, useful for producing amino acids e.g. L-lysine,
L-threonine, L-glycine, L-glutamic acid, L-proline and L-methionine and
L-isoleucine;
plasmid-mediated recombinant enzyme gene transfer and expression in
Corynebacterium sp.
AU ***HANKE P D***
PA ARCHER-DANIELS MIDLAND CO
PI WO 2002031158 18 Apr 2002
AI WO 2000-US31893 13 oct 2000
PRAI US 2000-239913 13 oct 2000
DT Patent
LA English
OS WPI: 2002-463267 [49]

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=> dis his

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(FILE 'HOME' ENTERED AT 11:49:36 ON 05 APR 2004)

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FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,

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NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 11:49:49 ON 05 APR 2004  
L1 7857 S HANKE, ?/AU  
L2 3 S L1 AND PYRUVATE CARBOXYLASE  
L3 1 DUP REM L2 (2 DUPLICATES REMOVED)

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.82	18.03

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 11:50:49 ON 05 APR 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1800EXS

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' AT 11:56:41 ON 05 APR 2004  
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FILE 'SCISEARCH' ENTERED AT 11:56:41 ON 05 APR 2004  
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FILE 'LIFESCI' ENTERED AT 11:56:41 ON 05 APR 2004  
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FILE 'BIOTECHDS' ENTERED AT 11:56:41 ON 05 APR 2004  
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FILE 'BIOSIS' ENTERED AT 11:56:41 ON 05 APR 2004  
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FILE 'EMBASE' ENTERED AT 11:56:41 ON 05 APR 2004  
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FILE 'BIOTECHNO' ENTERED AT 11:56:41 ON 05 APR 2004  
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FILE 'WPIDS' ENTERED AT 11:56:41 ON 05 APR 2004  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.82	18.03

=> s pyruvate carboxylase

L4 9293 PYRUVATE CARBOXYLASE

=> s 14 (5a)(sequence or gene)

6 FILES SEARCHED...

10 FILES SEARCHED...

L5 790 L4 (5A)(SEQUENCE OR GENE)

=> s 15 (5a) muta?

L6 49 L5 (5A) MUTA?

=> s 14 (5a)(feedback or resistant or inhibit?)

9 FILES SEARCHED...

L7 530 L4 (5A)(FEEDBACK OR RESISTANT OR INHIBIT?)

=> s 17 (5a)(aspart?)

L8 94 L7 (5A)(ASPART?)

=> s 16 and 18

L9 3 L6 AND L8

=> dup rem 19

PROCESSING COMPLETED FOR L9

L10 1 DUP REM L9 (2 DUPLICATES REMOVED)



=>  
=> d

L10 ANSWER 1 OF 1 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-16323 BIOTECHDS  
TI Novel mutated, feedback resistant pyruvate carboxylase enzyme  
polypeptide, useful for producing amino acids e.g. L-lysine, L-threonine,  
L-glycine, L-glutamic acid, L-proline and L-methionine and L-isoleucine;  
plasmid-mediated recombinant enzyme gene transfer and expression in  
Corynebacterium sp.  
AU HANKE P D  
PA ARCHER-DANIELS MIDLAND CO  
PI WO 2002031158 18 Apr 2002  
AI WO 2000-US31893 13 Oct 2000  
PRAI US 2000-239913 13 Oct 2000  
DT Patent  
LA English  
OS WPI: 2002-463267 [49]

=> dup rem 18  
PROCESSING COMPLETED FOR L8  
L11 44 DUP REM L8 (50 DUPLICATES REMOVED)

=> d 1-10

L11 ANSWER 1 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2003-28643 BIOTECHDS  
TI Novel isolated coryneform bacteria citE gene polynucleotide which encodes  
polypeptide preferably exhibiting citrate lyase E activity, useful for  
production of L-amino acids;  
recombinant enzyme protein production via plasmid expression in host  
cell useful for L-amino acid production  
AU FARWICK M; HUTHMACHER K; MARX A; BATHE B; PFEFFERLE W  
PA FARWICK M; HUTHMACHER K; MARX A; BATHE B; PFEFFERLE W  
PI US 2003113879 19 Jun 2003  
AI US 2001-770688 6 Jun 2001  
PRAI US 2001-770688 6 Jun 2001; US 2001-770688 6 Jun 2001  
DT Patent  
LA English  
OS WPI: 2003-801299 [75]

L11 ANSWER 2 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-16323 BIOTECHDS  
TI Novel mutated, feedback resistant pyruvate carboxylase enzyme  
polypeptide, useful for producing amino acids e.g. L-lysine, L-threonine,  
L-glycine, L-glutamic acid, L-proline and L-methionine and L-isoleucine;  
plasmid-mediated recombinant enzyme gene transfer and expression in  
Corynebacterium sp.  
AU HANKE P D  
PA ARCHER-DANIELS MIDLAND CO  
PI WO 2002031158 18 Apr 2002  
AI WO 2000-US31893 13 Oct 2000  
PRAI US 2000-239913 13 Oct 2000  
DT Patent  
LA English  
OS WPI: 2002-463267 [49]

L11 ANSWER 3 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-12968 BIOTECHDS  
TI New ppsA gene of Coryneform bacteria, useful when overexpressed, for  
increasing fermentative production of L-amino acids, encodes a  
phosphoenol pyruvate synthase;  
vector-mediated pyruvate-water-dikinase gene transfer and expression  
in Coryneform glutamicum for enzyme activity enhancement for L-lysine  
production  
AU MOECKEL B; MARX A; BASTUCK C; BUCHHOLZ M; PFEFFERLE W  
PA DEGUSSA AG  
PI WO 2002022829 21 Mar 2002  
AI WO 2000-EP9456 13 Sep 2000  
PRAI DE 2000-1045497 13 Sep 2000  
DT Patent  
LA English  
OS WPI: 2002-362348 [39]

L11 ANSWER 4 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-12574 BIOTECHDS  
TI New atr43 gene of coryneform bacteria, useful when suppressed for  
increasing fermentative production of L-amino acids, encodes an ABC  
transporter protein;  
vector expression in host cell for recombinant protein, fermentation,  
mutagenesis useful for L-lysine, medicine, food, DNA array and biochip  
AU FARWICK M; HUTHMACHER K; PFEFFERLE W  
PA DEGUSSA AG  
PI WO 2002022814 21 Mar 2002  
AI WO 2000-EP8650 15 Sep 2000  
PRAI DE 2001-1023070 11 May 2001  
DT Patent  
LA English  
OS WPI: 2002-339870 [37]

L11 ANSWER 5 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-12659 BIOTECHDS  
TI New ccsB gene of coryneform bacteria, useful when overexpressed for  
increasing fermentative production of L-amino acids, encodes a cytochrome  
c synthesis protein;  
vector-mediated gene transfer and expression in host cell for strain  
improvement and L-amino acid preparation  
AU FARWICK M; HUTHMACHER K; PFEFFERLE W; BATHE B; HERMANN T  
PA DEGUSSA AG  
PI WO 2002022672 21 Mar 2002  
AI WO 2000-EP9457 14 Sep 2000  
PRAI DE 2000-1045487 14 Sep 2000  
DT Patent  
LA English  
OS WPI: 2002-329948 [36]

L11 ANSWER 6 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-12658 BIOTECHDS  
TI New pstC2 gene of coryneform bacteria, useful when suppressed for  
increasing fermentative production of L-amino acids, encodes a  
membrane-bound phosphate transporter protein;  
vector-mediated gene transfer and expression in host cell for strain  
improvement and L-amino acid preparation  
AU FARWICK M; HUTHMACHER K; PFEFFERLE W; BREHME J  
PA DEGUSSA AG  
PI WO 2002022671 21 Mar 2002  
AI WO 2000-EP9455 14 Sep 2000  
PRAI DE 2000-1045486 14 Sep 2000  
DT Patent  
LA English  
OS WPI: 2002-329947 [36]

L11 ANSWER 7 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-12657 BIOTECHDS  
TI New sugA gene of coryneform bacteria, useful when suppressed for  
increasing fermentative production of L-amino acids, encodes a sugar  
transporter protein;  
vector-mediated gene transfer and expression in host cell for strain  
improvement and L-amino acid preparation  
AU FARWICK M; HUTHMACHER K; PFEFFERLE W; HERMANN T; MARX A  
PA DEGUSSA AG  
PI WO 2002022669 21 Mar 2002  
AI WO 2000-EP9164 14 Sep 2000  
PRAI DE 2001-1008839 23 Feb 2001  
DT Patent  
LA English  
OS WPI: 2002-329946 [36]

L11 ANSWER 8 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-12656 BIOTECHDS  
TI New gorA gene of coryneform bacteria, useful when suppressed for  
increasing fermentative production of L-amino acids, encodes a  
glutathione reductase;  
vector-mediated gene transfer and expression in host cell for strain  
improvement and L-amino acid preparation  
AU FARWICK M; HUTHMACHER K; PFEFFERLE W; MARX A  
PA DEGUSSA AG  
PI WO 2002022666 21 Mar 2002  
AI WO 2000-EP9314 12 Sep 2000  
PRAI DE 2001-1009023 24 Feb 2001

DT Patent  
LA English  
OS WPI: 2002-329945 [36]

L11 ANSWER 9 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-13089 BIOTECHDS  
TI New Atr61 gene of Coryneform bacteria, useful when overexpressed, for increasing fermentative production of L-amino acids, encodes an ABC transporter protein;  
vector-mediated gene transfer and expression in host cell for strain improvement and L-lysine preparation

AU FARWICK M; HUTHMACHER K; PFEFFERLE W  
PA DEGUSSA AG  
PI WO 2002022633 21 Mar 2002  
AI WO 2000-EP10522 15 Sep 2000  
PRAI DE 2000-1045579 15 Sep 2000

DT Patent  
LA English  
OS WPI: 2002-362328 [39]

L11 ANSWER 10 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-13334 BIOTECHDS  
TI New pknD gene of Coryneform bacteria, useful when overexpressed, for increasing fermentative production of L-amino acids, encodes a protein kinase D protein;  
plasmid pK18mobsac-pknD-XuctionL-mediated enzyme gene transfer and expression in Escherichia coli and Corynebacterium glutamicum for L-lysine production

AU BATHE B; SCHROEDER I; FARWICK M; HERMANN T  
PA DEGUSSA AG  
PI WO 2002022632 21 Mar 2002  
AI WO 2000-EP10210 12 Sep 2000  
PRAI DE 2001-1020094 25 Apr 2001

DT Patent  
LA English  
OS WPI: 2002-371967 [40]

=> d 11-20

L11 ANSWER 11 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-11053 BIOTECHDS  
TI Novel lysR2 gene of coryneform bacteria encoding LysR2 protein which is a transcription regulator, useful for fermentative production of L-lysine and L-valine and as a probe detecting polynucleotides encoding LysR2;  
bacterium recombinant protein production vector expression in host cell, for L-amino acid, L-lysine, L-valine production

AU MOECKEL B; FARWICK M; HERMANN T; KREUTZER C; PFEFFERLE W  
PA DEGUSSA AG  
PI WO 2002012504 14 Feb 2002  
AI WO 2000-EP6808 10 Aug 2000  
PRAI DE 2001-1010346 3 Mar 2001

DT Patent  
LA English  
OS WPI: 2002-227155 [28]

L11 ANSWER 12 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2003-06013 BIOTECHDS  
TI New coryneform bacteria gene for subunit beta of RNA polymerase B, useful when overexpressed for increasing fermentative production of amino acids, also its mutants;  
vector-mediated recombinant protein gene transfer and expression in host cell for use in food and as a food-additive

AU MOECKEL B; BATHE B; HERMANN T; PFEFFERLE W; BINDER M  
PA DEGUSSA AG  
PI EP 1239040 11 Sep 2002  
AI EP 2002-2501 2 Feb 2002  
PRAI DE 2001-1062387 19 Dec 2001; DE 2001-1007229 16 Feb 2001

DT Patent  
LA German  
OS WPI: 2003-048323 [05]

L11 ANSWER 13 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-14541 BIOTECHDS  
TI New L-lactate dehydrogenase gene from coryneform bacteria, useful, when overexpressed, for increasing fermentative production of L-amino acid;

vector-mediated gene transfer and expression in host cell for strain improvement and L-lysine preparation

AU FARWICK M; HUTHMACHER K; BATHE B; PFEFFERLE W  
PA DEGUSSA AG  
PI EP 1186657 13 Mar 2002  
AI EP 2000-117811 9 Sep 2000  
PRAI DE 2000-1044681 9 Sep 2000  
DT Patent  
LA German  
OS WPI: 2002-282882 [33]

L11 ANSWER 14 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2003-04181 BIOTECHDS

TI New nucleic acid encoding ribosomal protein 12 of coryneform bacteria, useful, when overexpressed, for increasing fermentative amino acid synthesis;

vector-mediated gene transfer and expression in host cell for strain improvement and L-lysine preparation

AU MOECKEL B; BATHE B; HANS S; KREUTZER C; HERMANN T; PFEFFERLE W; BINDER M  
PA DEGUSSA AG  
PI DE 10162386 29 Aug 2002  
AI DE 2001-1062386 19 Dec 2001  
PRAI DE 2001-1007230 16 Feb 2001; DE 2001-1007230 16 Feb 2001  
DT Patent  
LA German  
OS WPI: 2002-714722 [78]

L11 ANSWER 15 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-17445 BIOTECHDS

TI New hemD and hemB genes and polypeptides of coryneform bacteria, useful, when overexpressed, for increasing fermentative production of amino acids;

plasmid-mediated uroporphyrinogen-III synthase and delta-aminolevulinic acid dehydratase gene transfer and expression in Corynebacterium glutamicum for L-lysine production

AU FARWICK M; HUTHMACHER K; SCHISCHKA N; MARX A; PFEFFERLE W  
PA DEGUSSA AG  
PI DE 10145585 2 May 2002  
AI DE 2000-1045585 28 Oct 2000  
PRAI DE 2000-1053708 28 Oct 2000  
DT Patent  
LA German  
OS WPI: 2002-445647 [48]

L11 ANSWER 16 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-15600 BIOTECHDS

TI New tmk gene of Coryneform bacteria, useful when suppressed, for increasing fermentative production of L-amino acids, encodes a thymidylate kinase;

L-lysine production by recombinant Corynebacterium glutamicum useful for food, medicine and pharmaceutical industry

AU FARWICK M; HUTHMACHER K; MARX A; PFEFFERLE W  
PA DEGUSSA AG  
PI DE 10140095 28 Mar 2002  
AI DE 2000-1040095 19 Sep 2000  
PRAI DE 2000-1046235 19 Sep 2000  
DT Patent  
LA German  
OS WPI: 2002-341601 [38]

L11 ANSWER 17 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-16465 BIOTECHDS

TI New cysD, N, K, E and H genes from coryneform bacteria, useful, when overexpressed, for increasing fermentative production of L-amino acids;

vector plasmid pEC-XK99E-mediated recombinant protein gene transfer and expression in Escherichia coli for use in L-amino acid preparation and medicine, pharmaceutical and food industries

AU FARWICK M; HUTHMACHER K; PFEFFERLE W; SCHISCHKA N; BATHE B  
PA DEGUSSA AG  
PI DE 10136986 21 Mar 2002  
AI DE 2000-1036986 3 Sep 2000  
PRAI DE 2001-1009691 28 Feb 2001  
DT Patent  
LA German  
OS WPI: 2002-373165 [41]

L11 ANSWER 18 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
 AN 2002-16464 BIOTECHDS  
 TI RodA genes from coryneform bacteria, useful, when overexpressed, for increasing fermentative production of L-amino acid, especially L-lysine; vector plasmid pEC-XK99E-mediated recombinant protein gene transfer and expression in Escherichia coli for use in L-amino acid preparation and medicine, pharmaceutical and food industries  
 AU FARWICK M; HUTHMACHER K; BATHE B; PFEFFERLE W  
 PA DEGUSSA AG  
 PI DE 10132947 21 Mar 2002  
 AI DE 2000-1032947 12 Sep 2000  
 PRAI DE 2000-1044943 12 Sep 2000  
 DT Patent  
 LA German  
 OS WPI: 2002-373156 [41]

L11 ANSWER 19 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
 AN 2002-16463 BIOTECHDS  
 TI New ftsX gene from coryneform bacteria, useful, when over expressed, for increasing fermentative production of L-amino acid, especially L-lysine; vector plasmid pEC-XK99E-mediated recombinant protein gene transfer and expression in Escherichia coli for use in L-amino acid preparation, medicine, pharmaceutical and food industries  
 AU FARWICK M; HUTHMACHER K; BREHME J; RIEPING M; PFEFFERLE W  
 PA DEGUSSA AG  
 PI DE 10132176 21 Mar 2002  
 AI DE 2000-1032176 12 Sep 2000  
 PRAI DE 2000-1044944 12 Sep 2000  
 DT Patent  
 LA German  
 OS WPI: 2002-373154 [41]

L11 ANSWER 20 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
 AN 2003-07731 BIOTECHDS  
 TI New metD gene of coryneform bacteria, useful when suppressed, for increasing fermentative production of L-amino acids, e.g. for animal nutrition; Corynebacterium glutamicum fermentation for methionine and lysine production  
 AU REY D; RUECKERT C; BATHE B; HUTHMACHER K; PFEFFERLE W; PUEHLER A; KALINOWSKI J  
 PA DEGUSSA AG  
 PI DE 10126164 5 Dec 2002  
 AI DE 2001-1026164 30 May 2001  
 PRAI DE 2001-1026164 30 May 2001; DE 2001-1026164 30 May 2001  
 DT Patent  
 LA German  
 OS WPI: 2003-141912 [14]

=> d 21-30

L11 ANSWER 21 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
 AN 2002-18760 BIOTECHDS  
 TI New polynucleotide representing mtrA and B genes of coryneform bacteria, useful, when suppressed, for increasing fermentative production of amino acids; vector-mediated recombinant protein gene transfer and expression in host cell and fermentation for use in medicine, pharmaceutical and food industry, as feedstuff, DNA primer, DNA probe, DNA microarray and DNA chip  
 PA DEGUSSA AG; FORSCHUNGSZENTRUM JUELICH GMBH  
 PI DE 10125089 23 May 2002  
 AI DE 2000-1025089 22 Nov 2000  
 PRAI DE 2000-1057802 22 Nov 2000  
 DT Patent  
 LA German  
 OS WPI: 2002-510237 [55]

L11 ANSWER 22 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
 AN 2002-14941 BIOTECHDS  
 TI New dep34 gene from coryneform bacteria, useful, when inactivated, for increasing fermentative production of L-amino acid, especially L-lysine; plasmid-mediated inactivated mutant gene transfer and expression in Corynebacterium glutamicum for use in food and pharmaceutical industry  
 AU FARWICK M; HUTHMACHER K; HERMANN T; BATHE B; PFEFFERLE W

PA DEGUSSA AG  
PI DE 10112429 21 Mar 2002  
AI DE 2000-1012429 9 Sep 2000  
PRAI DE 2000-1044708 9 Sep 2000  
DT Patent  
LA German  
QS WPI: 2002-316816 [36]

L11 ANSWER 23 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-15772 BIOTECHDS  
TI New menE gene of coryneform bacteria, useful when suppressed for increasing fermentative production of L-amino acids, encodes an O-succinylbenzoic acid CoA-ligase;  
vector-mediated gene transfer and expression in host cell for strain improvement and L-lysine preparation

AU FARWICK M; HUTHMACHER K; PFEFFERLE W; MARX A  
PA DEGUSSA AG  
PI DE 10112106 28 Mar 2002  
AI DE 2000-1012106 20 Sep 2000  
PRAI DE 2000-1046624 20 Sep 2000  
DT Patent  
LA German  
OS WPI: 2002-331278 [37]

L11 ANSWER 24 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2003-01018 BIOTECHDS  
TI New trehalose-6-phosphate synthase gene from coryneform bacteria, useful, when suppressed for increasing fermentative production of amino acids, especially lysine;  
vector-mediated gene transfer and expression in host cell for strain improvement and amino acid preparation

AU HERMANN T; WOLF A; MORBACH S; KRAEMER R  
PA DEGUSSA AG  
PI DE 10110760 1 Aug 2002  
AI DE 2001-1010760 7 Mar 2001  
PRAI DE 2001-1003873 30 Jan 2001; DE 2001-1003873 30 Jan 2001  
DT Patent  
LA German  
OS WPI: 2002-600944 [65]

L11 ANSWER 25 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-15771 BIOTECHDS  
TI New pepC gene of Coryneform bacteria, useful when suppressed, for increasing fermentative production of L-amino acids, encodes an aminopeptidase I;  
vector-mediated gene transfer and expression in host cell for strain improvement and L-lysine preparation

AU FARWICK M; HUTHMACHER K; BATHE B; RIEPING M; PFEFFERLE W  
PA DEGUSSA AG  
PI DE 10108828 28 Mar 2002  
AI DE 2000-1008828 19 Sep 2000  
PRAI DE 2000-1046229 19 Sep 2000  
DT Patent  
LA German  
OS WPI: 2002-331276 [37]

L11 ANSWER 26 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-18235 BIOTECHDS  
TI New polynucleotide encoding the CysQ transporter of coryneform bacteria, useful, when over expressed, for increasing fermentative production of amino acids;  
vector-mediated recombinant protein gene transfer and expression in host cell and fermentation for use in L-amino acid preparation

AU FARWICK M; HUTHMACHER K; BATHE B; PFEFFERLE W  
PA DEGUSSA AG  
PI DE 10057801 23 May 2002  
AI DE 2000-1057801 22 Nov 2000  
PRAI DE 2000-1057801 22 Nov 2000  
DT Patent  
LA German  
OS WPI: 2002-509931 [55]

L11 ANSWER 27 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-15769 BIOTECHDS  
TI New dps gene of coryneform bacteria, useful when overexpressed, for increasing fermentative production of L-amino acids, encodes a

DNA-protection protein;  
vector-mediated gene transfer and expression in host cell for strain  
improvement and L-lysine preparation

AU BATHE B; KREUTZER C; RIEPING M; MARX A; FARWICK M; PFEFFERLE W  
PA DEGUSSA AG  
PI DE 10046623 28 Mar 2002  
AI DE 2000-1046623 20 Sep 2000  
PRAI DE 2000-1046623 20 Sep 2000  
DT Patent  
LA German  
OS WPI: 2002-331127 [37]

L11 ANSWER 28 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-15768 BIOTECHDS  
TI New polynucleotide from coryneform bacteria, useful when overexpressed  
for increasing fermentative amino acid production, encodes sigma factor  
D;  
vector-mediated gene transfer and expression in host cell for strain  
improvement and L-lysine preparation

AU BATHE B; KREUTZER C; MARTENS M; FARWICK M; HERRMANN T; PFEFFERLE W  
PA DEGUSSA AG  
PI DE 10043331 14 Mar 2002  
AI DE 2000-1043331 2 Sep 2000  
PRAI DE 2000-1043331 2 Sep 2000  
DT Patent  
LA German  
OS WPI: 2002-316723 [36]

L11 ANSWER 29 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-15767 BIOTECHDS  
TI New polynucleotide from coryneform bacteria, useful when weakened, for  
increasing fermentative amino acid production, encodes lipoic acid  
synthetase;  
vector-mediated gene transfer and expression in host cell for strain  
improvement and L-lysine preparation

AU MOECKEL B; PFEFFERLE W; BUCHHOLZ M  
PA DEGUSSA AG  
PI DE 10042742 14 Mar 2002  
AI DE 2000-1042742 31 Aug 2000  
PRAI DE 2000-1042742 31 Aug 2000  
DT Patent  
LA German  
OS WPI: 2002-316714 [36]

L11 ANSWER 30 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2002-15766 BIOTECHDS  
TI New polynucleotide from coryneform bacteria, useful, when weakened, for  
increasing fermentative amino acid production, encodes lipoprotein ligase  
B;  
vector-mediated gene transfer and expression in host cell for strain  
improvement and L-lysine preparation

AU MOECKEL B; PFEFFERLE W; BUCHHOLZ M  
PA DEGUSSA AG  
PI DE 10042739 14 Mar 2002  
AI DE 2000-1042739 31 Aug 2000  
PRAI DE 2000-1042739 31 Aug 2000  
DT Patent  
LA German  
OS WPI: 2002-316713 [36]

=> d 31-40

L11 ANSWER 31 OF 44 MEDLINE on STN DUPLICATE 31  
AN 2002646773 MEDLINE  
DN PubMed ID: 12406733  
TI Effect of pyruvate carboxylase overexpression on the physiology of  
Corynebacterium glutamicum.  
AU Koffas Mattheos A G; Jung Gyoo Yeol; Aon Juan C; Stephanopoulos Gregory  
CS Department of Chemical Engineering, Massachusetts Institute of Technology,  
Cambridge, Massachusetts 02139, USA.  
SO Applied and environmental microbiology, (2002 Nov) 68 (11) 5422-8.  
Journal code: 7605801. ISSN: 0099-2240.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English

FS Priority Journals  
EM 200212  
ED Entered STN: 20021031  
Last Updated on STN: 20021218  
Entered Medline: 20021217

L11 ANSWER 32 OF 44 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 2001-368419 [39] WPIDS  
DNC C2001-113145  
TI New isolated polynucleotide encoding phosphoglycerate mutase of coryneform bacteria, useful, when overexpressed, for increasing fermentative production of amino acids.  
DC B05 D13 D16 E19  
IN MOCKEL, B; PFEFFERLE, W; MOECKEL, B  
PA (DEGS) DEGUSSA-HUELS AG; (DEGS) DEGUSSA AG; (MOCK-I) MOCKEL B; (PFEF-I) PFEFFERLE W

CYC 37  
PI DE 19958160 A1 20010607 (200139)\* 11p C07K014-34  
AU 2000071773 A 20010607 (200139) C12P013-04  
EP 1104812 A1 20010606 (200140) DE C12N015-61  
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
RO SE SI TR  
CA 2325594 A1 20010602 (200144) EN C12N015-10  
BR 2000005699 A 20010731 (200146) C07H021-04  
JP 2001197891 A 20010724 (200147) 14p C12N015-09  
ZA 2000007083 A 20010829 (200157) 40p C07K000-00  
CN 1304999 A 20010725 (200164) C12N015-10  
KR 2001062075 A 20010707 (200175) C12N015-54  
US 2002002275 A1 20020103 (200207) C07H021-02  
SK 2000001795 A3 20020205 (200213) C07K014-34  
HU 2000004782 A1 20021028 (200277) C12N015-61  
MX 2000010969 A1 20020601 (200365) C12N015-61  
ADT DE 19958160 A1 DE 1999-19958160 19991202; AU 2000071773 A AU 2000-71773  
20001122; EP 1104812 A1 EP 2000-123955 20001103; CA 2325594 A1 CA  
2000-2325594 20001130; BR 2000005699 A BR 2000-5699 20001204; JP  
2001197891 A JP 2000-363631 20001129; ZA 2000007083 A ZA 2000-7083  
20001130; CN 1304999 A CN 2000-134608 20001201; KR 2001062075 A KR  
2000-72550 20001201; US 2002002275 A1 US 2000-725178 20001129; SK  
2000001795 A3 SK 2000-1795 20001127; HU 2000004782 A1 HU 2000-4782  
20001201; MX 2000010969 A1 MX 2000-10969 20001108  
PRAI DE 1999-19958160 19991202  
IC ICM C07H021-02; C07H021-04; C07K000-00; C07K014-34; C12N015-09;  
C12N015-10; C12N015-54; C12N015-61; C12P013-04  
ICS C07H021-00; C12N001-20; C12N001-21; C12N009-90; C12N015-11;  
C12N015-31; C12N015-52; C12N015-67; C12P013-08; C12Q001-68;  
C12R001-15  
ICI C12P013-04; C12R001:15; C12N001-21; C12N015-09; C12P013-08; C12Q001-68;  
C12R001:15; C12R001:15; C12R001:15; C12R001:15

L11 ANSWER 33 OF 44 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 2001-368418 [39] WPIDS  
DNC C2001-113144  
TI New isolated polynucleotide encoding glucokinase of coryneform bacteria, useful, when overexpressed, for increasing fermentative production of amino acids.  
DC B05 D13 D16 E19  
IN MOCKEL, B; PFEFFERLE, W; MOECKEL, B  
PA (DEGS) DEGUSSA-HUELS AG; (DEGS) DEGUSSA AG; (MOCK-I) MOCKEL B; (PFEF-I) PFEFFERLE W

CYC 37  
PI DE 19958159 A1 20010607 (200139)\* 11p C07K014-34  
AU 2000071988 A 20010607 (200139) C12N015-31  
EP 1106694 A1 20010613 (200141) DE C12N015-54  
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
RO SE SI TR  
CA 2325227 A1 20010602 (200144) EN C12N015-54  
JP 2001204481 A 20010731 (200148) 17p C12N015-09  
BR 2000005678 A 20010821 (200155) C12N015-54  
ZA 2000007078 A 20010829 (200157) 37p C07K000-00  
SK 2000001794 A3 20011008 (200163) C12N015-54  
CN 1305000 A 20010725 (200164) C12N015-10  
KR 2001062078 A 20010707 (200175) C12N015-54  
US 2002040129 A1 20020404 (200227) C07H021-02  
US 2003022320 A1 20030130 (200311) C12P013-04  
HU 2000004783 A1 20030328 (200333) C12N015-54  
MX 2000011815 A1 20020601 (200365) C12N015-54



ADT DE 19958159 A1 DE 1999-19958159 19991202; AU 2000071988 A AU 2000-71988  
20001204; EP 1106694 A1 EP 2000-125716 20001124; CA 2325227 A1 CA  
2000-2325227 20001129; JP 2001204481 A JP 2000-363632 20001129; BR  
2000005678 A BR 2000-5678 20001201; ZA 2000007078 A ZA 2000-7078 20001130;  
SK 2000001794 A3 SK 2000-1794 20001127; CN 1305000 A CN 2000-134610  
20001201; KR 2001062078 A KR 2000-72627 20001202; US 2002040129 A1 US  
2000-725898 20001130; US 2003022320 A1 Div ex US 2000-725898 20001130, US  
2002-197541 20020718; HU 2000004783 A1 HU 2000-4783 20001201; MX  
2000011815 A1 MX 2000-11815 20001129

PRAI DE 1999-19958159 19991202

IC ICM C07H021-02; C07K000-00; C07K014-34; C12N015-09; C12N015-10;  
C12N015-31; C12N015-54; C12P013-04

ICS C07H021-00; C07H021-04; C12N001-21; C12N009-02; C12N009-04;  
C12N009-10; C12N009-12; C12N009-14; C12N009-88; C12N009-90;  
C12N015-11; C12N015-52; C12N015-63; C12N015-74; C12P013-08;  
C12P021-02; C12R001-15

ICI C12P013-04; C12R001:15; C12N001-21; C12N009-02; C12N009-04; C12N009-12;  
C12N009-14; C12N009-88; C12N009-90; C12N015-09; C12P013-08;  
C12R001:15; C12R001:15; C12R001:15; C12R001:15; C12R001:15;  
C12R001:15; C12R001:15; C12R001:15; C12R001:15

L11 ANSWER 34 OF 44 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

AN 1995-106843 [14] WPIDS

DNC C1995-048689

TI Variant of phospho-enol \*\*\*pyruvate\*\*\* \*\*\*carboxylase\*\*\* - not  
substantially \*\*\*inhibited\*\*\* by \*\*\*aspartic\*\*\* acid, is used for  
efficient production of amino acids.

DC B04 B05 D16 E19

IN IZUI, K; MATSUI, H; SUGIMOTO, M; SUZUKI, T; HIROSHI, M; MASAKAZU, S;  
TOMOKO, S; TOYAMA, T; MATSUI, H H

PA (AJIN) AJINOMOTO KK

CYC 32

PI WO 9506114 A1 19950302 (199514)\* JA 77p C12N009-88

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

W: AU BR CA CN CZ HU KR PL RU SK US VN

AU 9480991 A 19950321 (199526) C12N009-88

JP 07111890 A 19950502 (199526) 16p C12N009-00

JP 08070860 A 19960319 (199621) 26p C12N009-00

CZ 9600524 A3 19960612 (199631) C12N009-88

EP 723011 A1 19960724 (199634) EN 50p C12N009-88

R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

SK 9600204 A3 19961106 (199702) C12N009-88

BR 9407625 A 19970121 (199710) C12N009-88

AU 682547 B 19971009 (199749) C12N009-88

CN 1133615 A 19961016 (199802) C12N009-88

EP 723011 A4 19970101 (199841) C12N009-88

US 5876983 A 19990302 (199916) C12P013-04

US 5919694 A 19990706 (199933) C07H021-04

JP 3013711 B2 20000228 (200015) 16p C12N009-00

RU 2133772 C1 19990727 (200030) C12N009-88

MX 195842 B 20000404 (200124) C07H021-004

HU 219600 B 20010528 (200140) C12N009-88

CZ 289051 B6 20011017 (200172) C12N009-88

EP 723011 B1 20020703 (200243) EN C12N009-88

R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DE 69430919 E 20020808 (200259) C12N009-88

KR 337959 B 20021123 (200333) C12N009-88

SK 283369 B6 20030603 (200345) C12N009-88

PH 1199448842 B1 20020416 (200382) C12N015-00

ADT WO 9506114 A1 WO 1994-JP1365 19940817; AU 9480991 A AU 1994-80991

19940817; JP 07111890 A JP 1994-196777 19940822; JP 08070860 A JP

1994-196778 19940822; CZ 9600524 A3 CZ 1996-524 19940817; EP 723011 A1 EP

1994-924384 19940817, WO 1994-JP1365 19940817; SK 9600204 A3 WO

1994-JP1365 19940817, SK 1996-204 19940817; BR 9407625 A BR 1994-7625

19940817, WO 1994-JP1365 19940817; AU 682547 B AU 1994-80991 19940817; CN

1133615 A CN 1994-193905 19940817; EP 723011 A4 EP 1994-924384 19940817;

US 5876983 A WO 1994-JP1365 19940817, US 1996-596366 19960429; US 5919694

A Div ex WO 1994-JP1365 19940817, Div ex US 1996-596366 19960429, US

1997-967104 19971110; JP 3013711 B2 JP 1994-196777 19940822; RU 2133772 C1

WO 1994-JP1365 19940817, RU 1996-107112 19940817; MX 195842 B MX 1994-6418

19940823; HU 219600 B WO 1994-JP1365 19940817, HU 1996-240 19940817; CZ

289051 B6 WO 1994-JP1365 19940817, CZ 1996-524 19940817; EP 723011 B1 EP

1994-924384 19940817, WO 1994-JP1365 19940817; DE 69430919 E DE

1994-630919 19940817, EP 1994-924384 19940817, WO 1994-JP1365 19940817; KR

337959 B WO 1994-JP1365 19940817, KR 1996-700741 19960214; SK 283369 B6 WO

1994-JP1365 19940817, SK 1996-204 19940817; PH 1199448842 B1 PH 1994-48842

19940823  
FDT AU 9480991 A Based on WO 9506114; EP 723011 A1 Based on WO 9506114; BR 9407625 A Based on WO 9506114; AU 682547 B Previous Publ. AU 9480991, Based on WO 9506114; US 5876983 A Based on WO 9506114; JP 3013711 B2 Previous Publ. JP 07111890; RU 2133772 C1 Based on WO 9506114; HU 219600 B Previous Publ. HU 73690, Based on WO 9506114; CZ 289051 B6 Previous Publ. CZ 9600524, Based on WO 9506114; EP 723011 B1 Based on WO 9506114; DE 69430919 E Based on EP 723011, Based on WO 9506114; KR 337959 B Previous Publ. KR 96704029, Based on WO 9506114; SK 283369 B6 Previous Publ. SK 9600204, Based on WO 9506114  
PRAI JP 1993-209775 19930824; JP 1993-209776 19930824; JP 1994-153876 19940705  
IC ICM C07H021-004; C07H021-04; C12N009-00; C12N009-88; C12N015-00; C12P013-04  
ICS C12N001-020; C12N001-20; C12N001-21; C12N009-18; C12N015-03; C12N015-11; C12N015-52; C12P013-06; C12P013-08; C12P013-10; C12P013-12; C12P013-14; C12P013-24  
ICA C12N015-09  
ICI C12N001-21, C12R001:01; C12N001-21, C12R001:185; C12N009-00, C12R001:01; C12N009-00, C12R001:185; C12P013-06, C12R001:185; C12P013-06, C12R001:01; C12P013-08, C12R001:185; C12P013-08, C12R001:01; C12P013-10, C12R001:185; C12P013-10, C12R001:01; C12P013-12, C12R001:185; C12P013-14, C12R001:185; C12P013-14, C12R001:01; C12P013-24, C12R001:185; C12P013-24, C12R001:01; C12N009-00, C12R001:185; C12N009-00, C12R001:01; C12N001-21, C12R001:185; C12N001-21, C12R001:01; C12N015-09, C12R001:185; C12P013-06, C12R001:185; C12P013-06, C12R001:01; C12P013-08, C12R001:185; C12P013-08, C12R001:01; C12N009-00, C12R001:185; C12N009-00, C12R001:01; C12N015-09, C12R001:185

L11 ANSWER 35 OF 44 MEDLINE on STN DUPLICATE 32  
AN 89374349 MEDLINE  
DN PubMed ID: 2775312  
TI Potentiation of benzoate toxicity by glyoxylate. Inhibition of pyruvate carboxylase and the urea cycle.  
AU Cyr D M; Tremblay G C  
CS Department of Biochemistry and Biophysics, University of Rhode Island, Kingston 02881.  
NC DK33536 (NIDDK)  
SO Biochemical pharmacology, (1989 Sep 1) 38 (17) 2919-23.  
Journal code: 0101032. ISSN: 0006-2952.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198909  
ED Entered STN: 19900309  
Last Updated on STN: 1990129  
Entered Medline: 19890927

L11 ANSWER 36 OF 44 MEDLINE on STN DUPLICATE 33  
AN 88139221 MEDLINE  
DN PubMed ID: 3325498  
TI Regulation of reductive production of succinate under anaerobic conditions in baker's yeast.  
AU Muratsubaki H  
CS Department of Clinical Biochemistry, Faculty of Health Science, Kyorin University, Tokyo.  
SO Journal of biochemistry, (1987 Oct) 102 (4) 705-14.  
Journal code: 0376600. ISSN: 0021-924X.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198803  
ED Entered STN: 19900308  
Last Updated on STN: 19900308  
Entered Medline: 19880325

L11 ANSWER 37 OF 44 MEDLINE on STN DUPLICATE 34  
AN 86164336 MEDLINE  
DN PubMed ID: 3514213  
TI Pyruvate carboxylase from *Saccharomyces cerevisiae*. Quaternary structure, effects of allosteric ligands and binding of avidin.  
AU Rohde M; Lim F; Wallace J C  
SO European journal of biochemistry / FEBS, (1986 Apr 1) 156 (1) 15-22.

Journal code: 0107600. ISSN: 0014-2956.  
CY GERMANY, WEST: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198605  
ED Entered STN: 19900321  
Last Updated on STN: 19900321  
Entered Medline: 19860519

L11 ANSWER 38 OF 44 MEDLINE on STN DUPLICATE 35  
AN 85127007 MEDLINE  
DN PubMed ID: 3971971  
TI The sub-cellular localisation and regulatory properties of pyruvate  
carboxylase from *Rhizopus arrhizus*.  
AU Osmani S A; Scrutton M C  
SO European journal of biochemistry / FEBS, (1985 Feb 15) 147 (1) 119-28.  
Journal code: 0107600. ISSN: 0014-2956.  
CY GERMANY, WEST: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198504  
ED Entered STN: 19900320  
Last Updated on STN: 19900320  
Entered Medline: 19850410

L11 ANSWER 39 OF 44 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1982:255011 BIOSIS  
DN PREV198274027491; BA74:27491  
TI EFFECT OF SALT STRESS ON THE STRUCTURE AND CARBON FLOW MECHANISM IN A  
NOXIOUS WEED PARTHENIUM-HYSTEROPHORUS.  
AU HEGDE B A [Reprint author]; PATIL T M  
CS DEP BOTANY, SHIVAJI UNIV, KOLHAPUR 416004, INDIA  
SO Weed Research, (1982) Vol. 22, No. 1, pp. 51-56.  
CODEN: WEREAT. ISSN: 0043-1737.  
DT Article  
FS BA  
LA ENGLISH

L11 ANSWER 40 OF 44 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 36  
AN 81:32458 LIFESCI  
TI Pyruvate Carboxylase From *Aspergillus nidulans* Regulatory Properties.  
AU Osmani, S.A.; Marston, F.A.O.; Selmes, P.; Chapman, A.G.; Scrutton, M.C.  
CS Dept. Biochem., Univ. London King's Coll., London, UK  
SO Eur. J. BIOCHEM., (1981) vol. 118, no. 2, pp. 271-278.  
DT Journal  
FS L; K  
LA English  
SL English

=> d 41-44

L11 ANSWER 41 OF 44 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1978:192548 BIOSIS  
DN PREV197866005045; BA66:5045  
TI PYRUVATE CARBOXYLASE FROM A THERMOPHILIC BACILLUS STUDIES ON THE  
SPECIFICITY OF ACTIVATION BY ACYL DERIVATIVES OF COENZYME A AND ON THE  
PROPERTIES OF CATALYSIS IN THE ABSENCE OF ACTIVATOR.  
AU LIBOR S M [Reprint author]; SUNDARAM T K; SCRUTTON M C  
CS DEP BIOCHEM, UNIV MANCH INST SCI TECHNOL, MANCHESTER M60 1 QD, ENGL, UK  
SO Biochemical Journal, (1978) Vol. 169, No. 3, pp. 543-558.  
ISSN: 0264-6021.  
DT Article  
FS BA  
LA ENGLISH

L11 ANSWER 42 OF 44 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1970:494890 HCAPLUS  
DN 73:94890  
TI Metabolism of microorganisms important in food technology. IX. Pyruvic  
carboxylase in *Penicillium caemberti* var *candidum*. 2. Kinetic properties  
of the enzyme  
AU Schormueller, Josef; Stan, Hans J.  
CS Inst. Lebensmittelchem. Lebensmitteltechnol., Tech. Univ. Berlin, Berlin,

SO Fed. Rep. Ger.  
 Zeitschrift fuer Lebensmittel-Untersuchung und -Forschung (1970), 142(4),  
 268-75  
 CODEN: ZLUFAR; ISSN: 0044-3026  
 DT Journal  
 LA German  
 L11 ANSWER 43 OF 44 MEDLINE on STN  
 AN 67178602 MEDLINE  
 DN PubMed ID: 5970498  
 TI \*\*\*Inhibition\*\*\* of yeast \*\*\*pyruvate\*\*\* \*\*\*carboxylase\*\*\* by  
 L- \*\*\*aspartate\*\*\* and oxaloacetate.  
 AU Palacian E; de Torrontegui G; Losada M  
 SO Biochemical and biophysical research communications, (1966 sep 8) 22 (5)  
 644-9.  
 Journal code: 0372516. ISSN: 0006-291X.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 196709  
 ED Entered STN: 19900101  
 Last Updated on STN: 19970203  
 Entered Medline: 19670907

L11 ANSWER 44 OF 44 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1966:484246 HCAPLUS  
 DN 65:84246  
 OREF 65:15824f-g  
 TI \*\*\*Inhibition\*\*\* of yeast \*\*\*pyruvate\*\*\* \*\*\*carboxylase\*\*\* by  
 l- \*\*\*aspartate\*\*\* and oxaloacetate  
 AU Palacian, E.; de Torrontegui, G.; Losada, M.  
 CS Inst. Biol. Celular, Madrid  
 SO Biochemical and Biophysical Research Communications (1966), 24(5), 644-9  
 CODEN: BBRC9; ISSN: 0006-291X  
 DT Journal  
 LA English

=> dis his

(FILE 'HOME' ENTERED AT 11:49:36 ON 05 APR 2004)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,  
 NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 11:49:49 ON 05 APR 2004

L1 7857 S HANKE, ?/AU  
 L2 3 S L1 AND PYRUVATE CARBOXYLASE  
 L3 1 DUP REM L2 (2 DUPLICATES REMOVED)  
 L4 9293 S PYRUVATE CARBOXYLASE  
 L5 790 S L4 (5A) (SEQUENCE OR GENE)  
 L6 49 S L5 (5A) MUTA?  
 L7 530 S L4 (5A) (FEEDBACK OR RESISTANT OR INHIBIT?)  
 L8 94 S L7 (5A) (ASPART?)  
 L9 3 S L6 AND L8  
 L10 1 DUP REM L9 (2 DUPLICATES REMOVED)  
 L11 44 DUP REM L8 (50 DUPLICATES REMOVED)

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

76.90

77.11

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 12:03:03 ON 05 APR 2004